

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1           **Claim 1 (currently amended):** A radio communications  
2   apparatus having a transmission power control feature for  
3   controlling the transmission power of said apparatus a  
4   ~~local station~~ by using a transmission power control bit  
5   transmitted from a distant station to the apparatus ~~local~~  
6   ~~station~~, said apparatus comprising:  
7           a communication state detector which detects a  
8   communication state based on the reception power of a  
9   received signal transmitted from the distant station to  
10   said apparatus; and  
11           a transmission power control step range changer which  
12   varies the power step amount of a transmission power  
13   control step ~~range~~ corresponding to the transmission power  
14   control bit based on the detected communication state,  
15   wherein  
16   said apparatus increases or decreases a transmission  
17   power of a transmitted signal to the distant station by the  
18   varied power step amount in response to the transmission  
19   power control bit received from the distant station.

1           **Claim 2 (original):**     The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a reception power change detector which  
4   detects a change in reception power in a local station.

1           **Claim 3 (original):**     The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a distant station transmission power  
4   change detector which detects a change in transmission  
5   power in a distant station.

1           **Claim 4 (original):**     The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a control state detector which detects  
4   the control state of the local station.

1           **Claim 5 (original):**     The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a local station transmission power  
4   change detector which detects a change in transmission  
5   power in the local station.

1           **Claim 6 (original):**     The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a transmission power control bit change

4 detector which detects a change in said transmission power  
5 control bit.

1       **Claim 7 (original):**       The radio communications  
2 apparatus according to claim 2, wherein said reception  
3 power change detector has a reception power comparator  
4 which compares a previous reception power with a current  
5 reception power.

1       **Claim 8 (original):**       The radio communications  
2 apparatus according to claim 2, wherein said reception  
3 power change detector has a fading pitch detector which  
4 detects the fading pitch of reception power.

1       **Claim 9 (original):**       The radio communications  
2 apparatus according to claim 2, wherein said reception  
3 power change detector has a reception power threshold  
4 comparator which compares the reception power with a  
5 predetermined threshold.

1       **Claim 10 (currently amended):**   A transmission power  
2 control method for a radio communications apparatus for  
3 controlling transmission power of the apparatus ~~a local~~  
4 ~~station~~ by using a transmission power control bit

5 transmitted from a distant station to the ~~local station~~  
6 apparatus, said method comprising:

7 the apparatus having a communication state detecting  
8 step which detects a communication state based on the  
9 reception power of a received signal transmitted from the  
10 distant station; and

11 the apparatus having a transmission power control step  
12 range changing step which varies the power step amount of  
13 a transmission power control step ~~range~~ corresponding to  
14 the a transmission power control bit, received by the  
15 apparatus from the distant station, based on the detected  
16 communication state; and

17 said apparatus increasing or decreasing a transmission  
18 power of a transmitted signal to the distant station by the  
19 varied power step amount in response to the transmission  
20 power control bit.

1 **Claim 11 (original):** The transmission power control  
2 method for radio communications apparatus according to  
3 claim 10, wherein said communication state detecting step  
4 has a reception power change detecting step which detects  
5 a change in reception power in a local station, wherein  
6 said transmission power control range changing step changes  
7 the transmission power control range depending on the  
8 detected change in reception power.

1           **Claim 12 (previously submitted):**   The transmission  
2   power control method for radio communications apparatus  
3   according to claim 10, wherein

4           said communication state detecting step has a distant  
5   station transmission power change detecting step which  
6   detects a change in transmission power in a distant station  
7   and a reception power change detecting step which detects  
8   a change in reception power in a local station, wherein

9           said transmission power control step range changing  
10   step varies the power step amount of the transmission power  
11   control step range depending on the detected change in  
12   transmission power in the distant station and the detected  
13   change in reception power in the local station.

1           **Claim 13 (previously presented):**   The transmission  
2   power control method for radio communications apparatus  
3   according to claim 10, wherein

4           said communication state detecting step has a control  
5   state detecting step which detects the control state of a  
6   local station, wherein

7           said transmission power control step range changing  
8   step varies the power step amount of the transmission power  
9   control step range depending on the detected control state.

1           **Claim 14 (previously presented):** A transmission power  
2     control method for radio communications apparatus according  
3     to claim 10, wherein

4           said communication state detecting step has a local  
5     station transmission power change detecting step which  
6     detects a change in transmission power in a local station  
7     and a transmission power control bit change detecting step  
8     which detects a change in the transmission power control  
9     bit, wherein

10          said transmission power control step range changing  
11     step varies the power step amount of the transmission power  
12     control step range depending on the detected change in  
13     transmission power in the local station and the detected  
14     change in the transmission power control bit.

1           **Claim 15 (original):** The transmission power control  
2     method for radio communications apparatus according to  
3     claim 11 or 12, wherein

4           said reception power change detecting step has a  
5     reception power comparing step which compares a previous  
6     reception power with a current reception power, wherein

7           a change in reception power is detected based on the  
8     comparison results of the reception power comparing step.

1           **Claim 16 (original):** The transmission power control  
2 method for radio communications apparatus according to  
3 claim 11 or 12, wherein  
4           said reception power change detecting step has a  
5 fading pitch detecting step which detects the fading pitch  
6 of reception power, wherein  
7           a change in reception power is detected based on the  
8 detected fading pitch.

1           **Claim 17 (original):** The transmission power control  
2 method for radio communications apparatus according to  
3 claim 11 or 12, wherein  
4           said reception power change detecting step has a  
5 reception power comparing step which compares a previous  
6 reception power with a current reception power and a fading  
7 pitch detecting step for detecting the fading pitch of  
8 reception power, wherein  
9           a change in reception power is detected based on the  
10 comparison results of the reception power comparing step  
11 and the detected fading pitch.

1           **Claim 18 (original):** A transmission power control  
2 method for radio communications apparatus according to  
3 claim 11 or 12, wherein

4           said reception power change detecting step has a  
5   reception power threshold comparing step for compares the  
6   reception power with a predetermined threshold, wherein  
7           a change in reception power is detected based on the  
8   comparison results of the reception power threshold  
9   comparing step.

1           **Claim 19 (previously presented):** A computer-readable  
2   recording medium for storing a program for use by a  
3   computer for executing the transmission power control  
4   method for the radio communications apparatus according to  
5   any one of claims 10 through 14.